Claims

1. A mobile phone assembly comprising: a housing that contains a radio transceiver and that supports an aerial; an ear-piece for transmitting sound in a first direction; a transducer for converting electrical signals into speech sound; and a dielectric member having an acoustic duct that extends in a longitudinal direction that is normal to said first direction, said acoustic duct guiding sound generated by said transducer into said ear-piece.

2. A mobile phone assembly according to claim 1 including a lid that is hinged to said housing, said lid comprising said earpiece and said duct.

3. A mobile phone assembly according to claim 2 wherein said transducer is placed in said lid.

4. A mobile phone assembly according to claim 2 wherein said transducer is placed in said housing.

5. A mobile phone assembly according to claim 1 comprising a member that has a sliding connection with said housing, said member comprising at least part of said duct.

6. A mobile phone assembly according to claim 1 including a telescopic arrangement that comprises at least part of said duct.

7. A mobile phone assembly according to claim 6 wherein said telescopic arrangement comprises concentric tubes at least one of which can be parked inside said housing.

8. A mobile phone assembly according to claim 1 wherein said duct is provided by at least one tube.

9. A mobile phone assembly according to claim 1 including a hands-free kit; said kit comprising said transducer, said duct, and a microphone.

10. A mobile phone assembly according to claim 1 including a hands-free kit; said kit comprising said duct, a microphone, and electrical wiring terminating in an electrical connector.

11. A mobile phone assembly according to any preceding claim wherein said duct is several centimeters long.

12. A hands-free kit for a mobile phone comprising:

an electrical cable terminating in a connector;

a microphone for delivering speech signals to said connector via said cable;

an ear-piece for transmitting sound in a first direction;

a transducer for converting electrical signals received from said connector into speech sound; and

a dielectric member having an acoustic duct that extends in a longitudinal direction that is normal to said first direction, said acoustic duct guiding sound generated by said transducer into said ear-piece.

13. A hands-free kit according to claim 12 wherein said duct is between two and twenty centimeters long.